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MEETING LOG

DATE : January 18, 1996 at 1:00 - 4:00 PM

PLACE : Crystal City Marriott, Arlington, VA

ATTENDEES : Representatives from the following organizations; Carpet and Rug Institute (CRI), the CRI Technical Panel, the CRI Science Advisory Board, selected carpet manufacturers, Air Quality Sciences, Inc. (AQS), Research Triangle Institute, the U.S. Environmental Protection Agency Indoor Air and Research and Development Offices, the U.S. Consumer Product Safety Commission (CPSC), and General Services Administration

SUBJECT : CRI Indoor Air Quality Adhesives Testing Program

Background

CRI is considering expanding its carpet emissions testing and labeling program to include carpet adhesives. Members of the CRI Technical Panel, CRI Science Advisory Board, and AQS have developed ideas concerning testing criteria, sampling plan, and other program details. The meeting was organized by CRI to gain input from government and other experts in the area of carpet system emissions. It was understood that the participants were present to express their views as technical experts, and not to officially represent their organizations.

Meeting

An agenda for the meeting is attached. Most attendees participated by conference call, since airports in North Carolina and Georgia were closed due to poor weather. After introductions, there was a brief overview of the CRI carpet emissions testing program. CRI wants to expand the program to carpet adhesives because they are considered a significant source of volatile organic chemical (VOC) emissions resulting from some commercial carpet installations. Some carpet manufacturers sell carpet adhesives but most of the market is represented by the Floor Covering Adhesive Manufacturers Committee.

The proposed testing would be similar to the carpet emissions testing program. Adhesive manufacturers would submit samples of their product types for emissions testing at regular intervals. The samples would be tested using a small chamber methodology developed by AQS. Twenty-four hour emission limits for total VOCs (TVOC) and the individual VOC, 2-ethylhexanol (2-EH), were proposed. The TVOC emission limit was a 24 hour emission factor that would be projected to give an acceptable TVOC concentration after a one week period based on previous emission-time data from AQS chamber studies of adhesives. The one week period was chosen because the manufacturers claim that occupancy usually occurs one to two weeks after carpet is installed in commercial buildings. The 2-EH emission limit was

chosen in order to keep exposure concentrations below its odor threshold. Excessive exposures to this compound from a flooring adhesive product was believed to contribute to odor complaints in a recent incident. An adhesive product that met the emissions criteria would be allowed to carry a green sticker similar to the green tag used in the carpet IAQ testing program.

AQS presented some emission data from different adhesive types that had undergone testing using their method. Adhesives emit higher amounts of VOCs than carpets. Some adhesives marketed as "Low VOC" or "Solvent Free" emit significant amounts of VOCs. This is a result of the different regulatory definitions of VOC among various local, state and federal authorities. AQS believes its emission data support the use of the single 24 hour time point as an appropriate surrogate for total VOC emissions.

The meeting participants generally felt that the emissions testing program was a first step in the direction of controlling VOC emissions from adhesives. However, many believed that adhesive manufacturers may not readily accept emissions testing and the green sticker especially if they are already able to market their product as "Low VOC". Some experts encouraged CRI and AQS to further document emission variability over time for the different adhesive products and the rationale for the emission limits. It was suggested that CRI and AQS consider periodically characterizing the emission/time profile for adhesive types and adjust the emission criteria, if necessary. It was also suggested that CRI consider developing adhesive performance standards in addition to emission criteria. CRI was planning to meet with adhesive manufacturers on January 23, 1996 to discuss the program.



United States
CONSUMER PRODUCT SAFETY COMMISSION
Washington, D.C. 20207

MEMORANDUM

DATE: January 17, 1996

TO : Alan C. Shankin
Assistant General Counsel
GCEI

FROM : Val H. Schaeffer
Pharmacologist
EHHE

SUBJECT: Waiver Request from Seven Day Notice for Announcing a
Meeting in the Public Calendar

This is to request a waiver from providing seven days notice for a January 18, 1996 meeting with the Carpet and Rug Institute (CRI) to discuss their prospective carpet adhesive testing and labeling program. Because of the partial government shutdown and weather-related closings, EHHE did not learn of the meeting until early this week. CRI has invited EHHE staff to this meeting because of their extensive experience with emission testing of carpet and carpet cushion. CRI plans to discuss details of their emission programs regarding carpet and carpet adhesive. This information may be useful for the upcoming CPSC staff hazard evaluation of chemical emissions from carpet system materials. An amendment notice for the Public Calendar has been forwarded to the Office of the Secretary.

cc: Rocky Hammond, OS
Lori Saltzman, EHHE

CRI IAQ Adhesive Testing & Labeling Program
Proposed Advisory Panel Meeting
January 18, 1996
Crystal City Marriott

AGENDA

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|----|--|-----------------|
| 1. | INTRODUCTION | RON VANGELDEREN |
| | <ul style="list-style-type: none">• Welcome• Meeting Objective• Brief Overview of proposed adhesive program
and what will be discussed today.• Recap of carpet program• Carpet program participation• Consumer Acceptance
800 number
literature• Adhesive Program Introduction | |
| 2. | MARKET (ADHESIVES) | CAREY MITCHELL |
| | <ul style="list-style-type: none">• Adhesive Market• Adhesive Manufacturer's Comments
(Low VOC Labeling Practices) | |
| 3. | PROPOSED ADHESIVE PROGRAM | JOE SMREKAR |
| | <ul style="list-style-type: none">• Control of Adhesive vs. Assembly• Criteria (Rational) | |
| 4. | SCIENCE | MARILYN BLACK |
| | <ul style="list-style-type: none">• Methodology - protocol• Data• Criteria• Why 24 hr. point?
(single vs. integrated data) | |
| 5. | PROGRAM ADMINISTRATION | KEN MCINTOSH |
| | <ul style="list-style-type: none">• Label/Logo• Sample collection procedures• Testing, routine/follow-up | |
| 6. | PROGRAM TIMELINE | RON VANGELDEREN |
| 7. | QUESTIONS & ANSWERS | RON VANGELDEREN |



The Carpet and Rug Institute
P.O. Box 2048, Dalton, Georgia 30722 (706) 278-3176 FAX (706) 278-8835

January 10, 1996

TO: Ms. Lori Saltzman
CPSC
FAX 301/504-0025

FROM: Ken McIntosh, Technical Director

SUBJECT: CRI IAQ Adhesive Testing Program
Individual Peer Review Panel Meeting

As you know, CRI introduced in July 1992 the **CRI Indoor Air Quality Carpet Testing and Labeling Program**. We consider this program to be extremely successful from the standpoint of reducing new carpet emission down to a very low ebb.

After emission testing a broad spectrum of floorcovering adhesive products, CRI has formulated testing criteria to be considered for a **CRI Indoor Air Quality Adhesive Testing and Labeling Program**. We invite you and will appreciate your participating in an individual peer review of the proposed program details. Following are the arrangements made for this peer review meeting:

DATE: Thursday, January 18, 1996
TIME: 1:00 p.m. - 5:00 p.m.
PLACE: Crystal City Marriott, 703/413-5500
1999 Jefferson Davis Highway
Arlington, VA 22202

Please check in the hotel lobby for the name and floor location of the CRI meeting room. Remember, the meeting is at the **Crystal City Marriot** and not at the Crystal Gateway Marriott which is located in the same general area.

Dr. Marilyn Black, of Air Quality Sciences, will review the test data on the carpet testing and labeling program as well as test data on floorcovering adhesives. Various carpet industry experts will present information pertaining to establishing the testing criteria, sampling plan and other program details.

We look forward to seeing you at the Crystal City Marriott. If you have any questions, please call me or my assistant Penny Littlefield at 706/226-3877.

KM/pl